

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q66372

Keiji YURUGI, et al.

Group Art Unit: 1621

Appln. No.: 09/982,861

Examiner: Karl J. PUTTLITZ

Confirmation No.: 7705

Patent No.: 7,321,051

Filed: October 22, 2001

Issue Date: January 22, 2008

For: COMPOSITION OF VINYL ETHER GROUP-CONTAINING (METH) ACRYLIC  
ACID ESTER AND PRODUCTION METHOD THEREOF

**REQUEST FOR CERTIFICATE OF CORRECTION**

**ATTN: Certificate of Correction Branch**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 C.F.R. § 1.322, please enter the attached Certificate of Correction.

Since the errors noted are believed to be the fault of the Patent and Trademark Office, we are not enclosing the \$100.00 Certificate of Correction fee. If it is found to be to the contrary, please charge our Deposit Account No. 19-4880.

In view of the foregoing, issuance of the Certificate of Correction is respectfully requested.

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

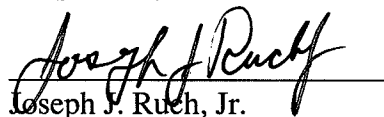
WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: August 6, 2008

Respectfully submitted,



Joseph J. Ruch, Jr.

Registration No. 26,577

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO: 7,321,051  
DATED: January 22, 2008  
INVENTORS: Keiji YURUGI and Hiroko YAMAGUCHI

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**In column 54, please amend claim 1 as follows:**

1. (currently amended): A method of producing a vinyl ether group-containing (meth) acrylic ester represented by the following formula (1):



in the formula,  $\text{R}^1$  represents a hydrogen atom or a methyl group,  $\text{R}^2$  represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted,  $\text{R}^3$  represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted,

with a (meth) acrylic ester represented by the following formula (3):

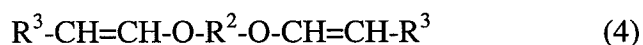


in the formula,  $\text{R}^1$  represents a hydrogen atom or a methyl group and  $\text{R}^4$  represents a straight, branched or cyclic alkyl group containing 1 to 8 carbon atoms and wherein said hydroxyl

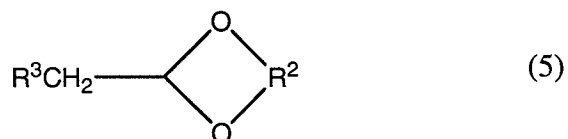
**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO: 7,321,051  
DATED: January 22, 2008  
INVENTORS: Keiji YURUGI and Hiroko YAMAGUCHI

group-containing vinyl ether contains, as an impurity, at least one compound selected from the  
group consisting of a divinyl ether represented by the following formula (4):



in the formula,  $R^2$  represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, and the two  $R^3$  groups are the same or different and each represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, a 2-substituted-1, 3-dioxo compound represented by the following formula (5):

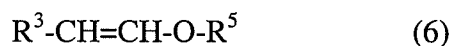


**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO: 7,321,051  
DATED: January 22, 2008  
INVENTORS: Keiji YURUGI and Hiroko YAMAGUCHI

in the formula, R<sup>2</sup> represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, and R<sup>3</sup> represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms, and may optionally be substituted, and

an unsaturated bond-containing vinyl ether represented by the following formula (6):



in the formula, R<sup>3</sup> represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted; R<sup>5</sup> represents an organic residue containing an unsaturated bond

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO: 7,321,051  
DATED: January 22, 2008  
INVENTORS: Keiji YURUGI and Hiroko YAMAGUCHI

represented by  $-CR^6=CR^7$ ; and  $R^6$  and  $R^7$  are the same or different and each represents a hydrogen atom or an organic residue.

MAILING ADDRESS OF SENDER:  
**SUGHRUE MION, PLLC**

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

PATENT NO. 7,321,051

No. of additional copies

1